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(54) Title: METHOD FOR TREATING EMOTIONAL	OR	MENTAL ILLNESS AND EMOTIONAL OR MENTAL ILLNESS		

CONCOMITANT WITH SEIZURES

(57) Abstract

A new composition and method for treating types of depression, obsessiveness, depression with obsessiveness, depression with anxiety, mania, and manic depression, depression with seizures, and combinations of these illnesses is claimed comprising administering to a patient exhibiting said illness or illnesses a pharmacologically effective dose of an opioid antagonist, and a pharmacologically effective dose of at least one drug compound selected from the group consisting of a tricyclic antidepressant, and a-typical antidepressant, and lithium. The patient may also, at the same time, be undergoing treatment with a benzodiazepine for anxiety.

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METHOD FOR TREATING EMOTIONAL OR MENTAL ILLNESS AND EMOTIONAL OR MENTAL ILLNESS CONCOMITANT WITH SEIZURES

BACKGROUND OF THE INVENTION

5 Field of the Invention

The present invention relates to the use of an opioid antagonist such as naltrexone in combination with one or more serotonin (5-hydroxytryptamine or 5-HT) or norepinephrine reuptake inhibitor(s) and/or lithium to treat mental or emotional disorders characterized by depression, 10 obsessiveness, depression with anxiety, mania, manic depression, depression with manic episodes, and depression concomitant with an illness causing seizures which are inhibited by carbamazepine, or a combination of any of these 15 mental or emotional illnesses, or mental or emotional illnesses with seizures. The inventor has discovered that naltrexone is useful in combination with lithium and/or one or more serotonin (5-HT) uptake inhibitor and/or norepinephrine (N.E.) uptake inhibitor drug compounds in 20 treating patients whose depression and/or associated mental illnesses or conditions were refractory to drug treatment using one or more known antidepressant agents or agents for manic and manic depressive disorders such as lithium, and tricyclic and a-typical antidepressants including, but not limited to clomipramine, amitriptyline, imipramine, 25 sertraline and nortriptyline that inhibit 5-HT and/or N.E. reuptake.

The inventor has further discovered that such treatment using naltrexone in combination with lithium and/or 5-HT or N.E. reuptake inhibitors is effective even where benzodiazepines are concurrently administered to treat

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anxiety. Additionally, the inventor has discovered that lithium in combination with naltrexone in some cases reduces manic and manic depressive bipolar symptoms.

Description of the Related Prior Art

A general discussion of the effectiveness of tricyclic 5 antidepressants and non-tricyclic a-typical antidepressants in inhibiting 5-HT and/or N.E. neuronal synaptic reuptake and in treating depression, along with the pharmacology of these compounds is found in Goodman and Gillman, The Pharmacological Basis of Therapeutics, 7th and 8th Eds. 10 (MacMillan Publ. Co.) Chapt. 19, Section 11 "Drugs Used in the Treatment of Disorders of Mood", incorporated by reference herein. According to the present invention, tricyclic antidepressants include, but are not limited to, imipramine, amitriptyline, trimipramine, doxepin, 15 desipramine, nortriptyline, protriptyline, amoxapine, clomipramine, maprotriline, and carbamazepine, and their pharmaceutically effective salts and esters, such as, but not limited to their hydrochlorides, maleates, tartrates and 20 Although carbamazepine is approved in the U.S. as lactates. antiepileptic, it is chemically related to tricyclic antidepressants, its actions on human brain neurons are not completely known, and for the present invention it is classified as a tricyclic antidepressant. See, Goodman and 25 Gillman, The Pharmacological Basis of Therapeutics, referenced above, 7th Ed., page 457 et seq.

According to the present invention, a-typical antidepressants include, but are not limited to, bupropion. sertraline, fluoxetine, and trazodone and their pharmacologically effective salts and esters, such as, but not limited to, their hydrochlorides, maleates, tartrates and lactates.

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Additional discussion of these drug compounds and their analogs' pharmacologic action in inhibiting 5-HT and N.E. and in treating depression is found in the <u>Physician's Desk Reference</u> (PDR), 47th Ed., 1993, published by Medical Economics Co., Inc., Montvale, N.J., indexed by generic compound name and incorporated by reference herein.

The opioid antagonists which may be employed in the present invention have been known for use in treatment of opioid overdose and to prevent abuse of opioids such as heroin or morphine. The pharmacology of opioid antagonist compounds are described in Goodman and Gillman, Pharmacological Basis of Therapeutics, 7th & 8th Eds. (as noted above), Chapt. 22, "Opioid Antagonists", incorporated by reference herein, and include, but are not limited to cyclazocine, naloxone, opioid antagonist compounds having the same pentacyclic nucleus as nalmefene, naltrexone, nalmefene, nalorphine, nalbuphine, thebaine, levallorphan, pentazocine, oxymorphone, butorphanol, buprenorphine, levorphanol, meptazinol, dezocine, and pentazocine and their pharmacologically effective salts and esters such as, but not limited to their hydrochlorides, maleates, tartrates and lactates.

The generally accepted use for opioid antagonists in treatment of human ailments has been for reversing opioid toxicity and overdoes and in preventing abuse of opioids, such as heroin and morphine. However, Glover, in U.S. Pat. 5,028,612 incorporated by reference herein, discusses use of opioid antagonists, such as naltrexone, in a method for treating emotional numbness where emotional numbness is "conceptualized as a biopsychological response to extreme emotional or physical trauma" and is featured by a person's subjective experience associated with bipolar conditions such as manic depression, depression with manic episodes,

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and depression concomitant with an illness causing seizures which are inhibited by carbamazepine, or a combination of these mental or emotional illnesses. These mental or emotional illnesses to be treated may or may not be successfully treatable with a tricyclic or a-typical antidepressants or lithium or a benzodiazepine with antianxiety activity or a combination of these agents without concomitant opioid antagonist administration. method of treatment is accomplished by adding an opioid antagonist drug compound to the drug treatment regimen for emotional or mental illness or emotional or mental illness concomitant with an illness causing seizures. the opioid antagonist added to the treatment regimen is naltrexone (Trexan) given in an amount of 10-150 mg. per day, along with other medication for depression and/or manic or bipolar disorder.

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It has further been determined that such a drug combination using an opioid antagonist or partial antagonist decreases the craving for sugars and carbohydrates often experienced with conventional tricyclic and a-typical antidepressant therapy.

The amounts of tricyclic or a-typical antidepressant or lithium which may be used with opioid antagonist to achieve the invention are dosage amounts typically given in treatment of depression, mania, or manic depression bipolar conditions well known to physicians treating mental or emotional conditions and to pharmacists, pharmacologists, and those skilled in the art, and further are those as directed by the labelling for these drugs as found in the 1993 PDR. The amount of opioid antagonist to be administered should be tailored to individual patient needs but generally is in the range of 10-150 mg/day. However, larger doses may be given if tolerated well by the patient,

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as needed. Appropriate and safe dosages for opioid antagonists are generally discussed in the PDR for each opioid antagonist and in Goodman and Gillman, — Pharmacological Basis of Therapeutics, referenced above, and also may be determined on a molar weight basis equivalent to that for 10-150 mg. of naltraxone (Trexan).

The tricyclic antidepressants which may be used in the present invention include, but are not limited, to imipramine, amitriptyline, trimipramine, doxepin, desipramine, nortriptyline, protriptyline, amoxapine, clomipramine, maprotiline, and carbamazepine and their pharmaceutically effective salts and esters.

The a-typical antidepressants which may be used in the present invention include, but are not limited to, bupropion, sertraline, fluoxetine, trazodone, and their pharmacologically effective esters and salts.

The opioid antagonist which may be used in the present invention include, but are not limited to, naloxone, opioid antagonist having the same pentacyclic nucleus as nalmefene, naltrexone, nalmefene, nalorphine, nalbuphine, thebaine, levallorphan, oxymorphone, butorphanol, buprenorphine, levorphanol, meptazinol, pentazocine, dezocine, and their pharmacologically effective esters and salts.

The pentacyclic nucleus is exemplified in the structural formula for nalmefene shown below:

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The opioid antagonist to be used in the invention may also possess some opioid agonist activity, and thus may be a partial antagonist with some agonist activity (partial agonist activity).

DETAILED DESCRIPTION OF PREFERRED EMBODIMENTS

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The present invention relates to the use of opioid antagonists in combination with lithium and/or a tricyclic antidepressant and/or an a-typical antidepressant with and without concomitant administration or an anti-anxiety agent wuch as a benzodiazepine to treat emotional or mental illness or emotional or mental illness concomitant with an illness causing seizures.

It has been discovered that such a treatment results in remarkable alleviation of patients' suicide ideation and general depressed state of mania where such depressed or manic condition was refractive to treatment without opioid antagonist but with lithium and/or a tricyclic antidepressant and/or an a-typical antidepressant.

Preferably, in the present invention, the patient is given a dose of 25 or 50 mg. of Trexan per day in the morning, depending on the size of the patient and the severity of the symptoms of depression.

Some patients may experience several days of sleepiness when Trexan is used in combination with tricyclic or atypical antipdepressants and in these patients an alternative dose would be in the neighborhood of 10 mg taken at bedtime for the first three days of administration. On the fourth day, 10 mg may be administered and assuring that no sleepiness is evident the dose should be advanced to 25 mg. each morning for the next four weeks. In some

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individuals, especially those experiencing seasonal depressions, administration at night may be more effective and that effect would be noted within a few days of switching the time of administration following the first month of treatment. After one month of treatment, some individuals showing a response to the psychotropic medicine that is being given concurrently may get a response by increasing the dose of the opioid antagonist. In the case of Trexan, a dose of 50 mg. has been effective in getting response to develop.

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A number of adverse effects of the administration of psychotropics have been observed to diminish upon this combination therapy, most notably the weight gain associated with long term administration of tricyclics. The effect of using opioid antagonists to augment treatment with psychotropic medications is not restricted to depressive disorders as attenuation of hostility and irritability by antidepressant medications has been enhanced as well as the reduction in anxiety states and obsessive compulsive states. The facilitation of effect is not restricted to those are non-responsive to psychotropic agents but has been observed in those who have had responses which, while satisfactory to the patient, were many times improved upon augmentation with the opioid antagonist.

The patients whose treatment with antidepressants are to be supplemented by benzodiazepine medication experience a dramatic decrease in their requirement for those categories of medication upon successful combination of the antidepressant being taken with naltrexone. In several cases studied, treatment with the opioid antagonist alone was completely unsatisfactory as was treatment with the psychotropic medication by itself. This phenomena has been noted with amitriptyline (Elavil), clomipramine (Anafranil),

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imipramine (Tofranil), and sertraline hydrochloride (Zoloft) and Lithium. Promising results have also been obtained with carbamazepine (Tegretal), and fluoxetine (Prozac):

Patients should be warned about not stopping benzodiazepine medicines such as alprazolam (Xanax) or lorazepam (Ativan) without supervision otherwise their perception of not needing the effects of these anti-anxiety agents may lead them to stop too abruptly and precipitate withdrawal symptoms. Occasionally, in the first three to five days of administration, patients describe customarily pleasant dreams replaced by anxious or irritable dreams. This phenomena subsides after a few days.

The invention will be more fully understood by reference to the following examples.

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EXAMPLE 1: A woman in her thirties who had a long history 15 of depression treatment failure requested new treatment. She had, at various times, been bulimic, self-mutilating, alcoholic, and subject to obsessive thoughts. recurrent major depressive episodes which included characteristic vegetative signs of disturbed sleep, 20 decreased appetite, energy, ability to concentrate and remember as well as the affective symptoms of sadness, irritability, and intense anxiety. At the time new treatment was begun, she presented symptoms of depression 25 and insomnia. A variety of antidepressants were tried, the last being clomipramine hydrochloride (Anafranil), approved as an anti-obsessive drug in the U.S. but a quite effective antidepressant in use in other countries for many years. a dose of 200 mg. Anafranil at bedtime, she got a very 30 minimal lifting of depression but was able to sleep. later, she presented, having discontinued the Anafranil some

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time before but then noted a return of increased depression and insomnia.

Restarting the Anafranil improved her sleep but little else. Trexan was added at a dose of 50 mg. daily in the morning and from three to five weeks after beginning this regimen, she noted a dramatic lifting of the depression.

After a period on full doses of Anafranil, Anafranil was slowly withdrawn stopping at 50 mg. of the antidepressant at night. She had a moderate reduction in mood but insisted that she still had an impressive result compared to post-treatment.

The Trexan was given at night instead of in the morning and she experienced an immediate return of depression and of special note, a return of what she described as obsessive thoughts and behaviors. Reinstatement of the Trexan in the morning resulted in immediate return of the ameliorative effect on depression and the cessation of obsessive thinking.

The patient was returned to treatment with 150-200 mg. Anafranil at night and 50 mg. Trexan in the morning with good results.

EXAMPLE 2:

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An obese woman in her thirties who had been hospitalized for recurrent major depressive symptoms requested treatment. She also had vegetative signs and was frequently suicidal. She was treated with large doses of amitriptyline (Elavil), fluoxetine hydrochloride (Prozac) and eventually sertraline hydrochloride (Zoloft) with marginal effects. She then took a lethal overdose of amitriptyline which she surprisingly survived. During her last hospital stay, a stimulant, Ritalin, was added in doses up to 160 mg. daily because of her lifelong distractibility

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and school difficulties consistent with Attention Deficit Disorder. She felt markedly better on Ritalin plus Zoloft 150 mg. in the morning but still complained of craving for sweets, a frequent side effect of antidepressant therapy which in her case resulted in 100 lb., plus, weight gain. She was also taking substantial doses of alprazalom (Xanax). The combination allowed her to be out of a hospital and reasonably non-suicidal.

She was started on Trexan, 25 mg., in the morning
without making any other changes. Very rapidly she lost her
craving for sweets and a weight loss effort which was
stalled took off. She lost thirty pounds in three weeks.
After three weeks of Trexan augmentation she started to feel
"Happy" and without prompting she discontinued all use of
Xanax. The dosage of Ritalin was then reduced. While on
combination therapy of Zoloft, Ritalin and Trexan, the
patient has had no suicide ideation and continues to report
being happy.

The loss of a carbohydrate craving is also of note as
this is one of the most prominent causes of non-compliance
in depressed patients. She was maintained with Zoloft,
Ritalin, and Trexan 50 mg. dosing in the morning.

EXAMPLE 3:

An obese man with a history of chronic recurrent

depressive episodes especially characterized by explosive
rage and a pervasive irritability requested treatment. He
had racing thoughts and frequent swings in energy. In
addition, he was subject to distractibility going back
through early childhood. His diagnosis was Bipolar Mood

Disorder, type 2. He responded to Amitriptyline 200 mg. at
bedtime augmented by Lithium Carbonate up to 900 mg. daily.
He was pleased with his result noting diminishing anger,

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better self control and was willing to live with the craving for sweets which treatment brought out despite gaining about 80 lbs. Then, 25-50 mg. of Trexan was added to his medicines taken in the morning and again after three to four weeks he noted a dramatically better mood.

He reported, "This is strange. All my life I've been suspicious and have looked at things expecting the worst. I have always been negative. Now I'm looking at things positively and it feels weird." He commented that he no longer craved sweets and reported losing about 10 lbs. a week. He said that his mood swings were gone and his anger was completely gone. This result was dramatically different than what was evident before the Trexan was added. He was then fired in a corporate downsizing and reported that he did not understand why he was just calmly going about the transition rather than falling apart.

EXAMPLE 4:

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A recovering alcoholic about age sixty with a major depression requested new treatment. He commented that he had not been happy for at least twenty five years. He was started on Zoloft, 50 mg. in the morning and 10, 50 mg. Trexan tablets with the instruction to take 25 mg. each morning until he ran out. He had been taking lorazepam (Ativan) 0.5 mg. four times a day for some time and was anxious that it be continued. After three weeks, he reported that the "Zoloft" was working and elected to stop taking the Trexan since he "couldn't feel it do anything." He said he was feeling happy for the first time and that on his own he had stopped taking the Ativan except occasionally at night. One month later, he was not feeling quite as well and had resumed the full dose of Ativan.

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He was instructed that he may have responded better to the Zoloft earlier because of the concurrent use of Trexan and he consented to restart it. One month later he reported his depression was gone, and had again, without prompting, discontinued the use of Ativan.

EXAMPLE 5:

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A chronically depressed, agoraphobic woman requested treatment for relief from severe suicidal depressive episodes. Due to her prominent phobic symptoms, she was started on imipramine 150-300 mg. at bedtime with equivocal results. A shift to Anafranil at similar doses resulted in a significantly better lifting of her mood but she was still quite impaired and subject to mood swings. One weekend she called and requested hospitalization due to very urgent wishes to kill herself. She happened to mention that Darvon would usually stop the urge to kill herself and rather than put her in hospital, she was given Darvon temporarily.

She was then started on Trexan 25 mg. in the morning with imipramine and three weeks later she felt "cured". Because of her concern about expense, she stopped the Trexan without telling her physician and presented again a few weeks later in a markedly depressed state despite continuing the imipramine. She was instructed to restart the Trexan and after several weeks she had an enormously improved mood and a marked reduction in her agoraphobic symptoms. In this lady, concurrent antidepressant with anltrexone was necessary to prevent likelihood of losing the patient to suicide or a return of severe depression.

EXAMPLE 6:

A fifty-some year old man with recurrent episodes of depression and explosive rage was being treated with

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imipramine for some three months prior to being admitted to the hospital. He was already tying the rope around his neck when the police grabbed him. Three weeks after adding Trexan at 25 mg. in the morning to imipramine 175 mg. at bedtime, he began to describe a lifting of his depression and irritability and became quite social and lively.

EXAMPLE 7:

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A woman in her mid-thirties who had a leaking aneurysm requiring destructive brain surgery and relearning to speak, was treated. She had a lifelong history of depression and had been deeply depressed when seen. Treatment with 175 mg. of nortriptyline (Pamelor) for many months had resulted in equivocal improvement. After four weeks of Trexan 25 mg. in the morning with Pamelor, she began a marked and sustained remission of depression described by the patient as the best ever.

EXAMPLE 8:

An operating room nurse with a bipolar depression which resisted tricyclics, a-typical antidepressants, and lithium, alone, requested treatment. She was taking 600 mg. of 20 Tegretal at bedtime when started on Trexan and was only taking the Tegretal to sleep. She had no antidepressant effect. She was then started on 50 mg. of Trexan with Tegretal and she slept for three days. She was instructed to dissolve the Trexan in water and take gradually 25 increasing doses beginning with less than 2 mg. per day. She was able to increase to 25 mg. daily and after several months became almost hypomanic, requiring periodic discontinuation of the Trexan to avoid becoming giddy on the She reported that it was the first medicine 30 iob. combination she had taken that improved her mood reliably.

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Tegretal is a tricyclic but an anticonvulsant/antimanic rather than antidepressant.

EXAMPLE 9:

It is expected that the patient of Example 8, above,

would improve even further if her treatment with Tegretal
plus Trexan (25 mg.) was supplemented or replaced with
treatment administering lithium plus 25 mg. Trexan. This
latter combination would solve her problems dosing herself
with Tegretal and Trexan intermittently to correct her
excess giddiness of mania, while preventing depressive
episodes.

WHAT IS CLAIMED:

- 1. A method of treating emotional or mental illness and emotional or mental illness concomitant with an illness causing seizures, comprising administering to a patient exhibiting said emotional or mental illness or emotional or mental illness concomitant with an illness causing seizures a pharmacologically effective dose of an opioid antagonist and a pharmacologically effective dose of at least one drug compound selected from the group consisting of a tricyclic antidepressant, an a-typical antidepressant, and lithium.
- 2. A method of treating emotional or mental illness and emotional or mental illness concomitant with an illness causing seizures selected from depression, obsessiveness, depression with obsessiveness, depression with anxiety, mania, manic depressive bipolar conditions, depressions with manic episodes and depression concomitant with an illness causing seizures which are inhibited by carbamazepine, or a combination of said illnesses, comprising administering to a patient exhibiting said emotional or mental illness and emotional or mental illness with seizures, a pharmacologically effective does of an opioid antagonist and a pharmacologically effective dose of at least one drug compound selected from the group consisting of a tricyclic antidepressant, an a-typical antidepressant, and lithium.
- 3. The method of claim 2, wherein said method does not cause carbohydrate craving.
- 4. The method of claim 1, wherein said opioid antagonist is selected from the group consisting of cyclazocine, naloxone, naltrexone, nalmefene, nalorphine,

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nalbuphine, thebaine, levallorphan, oxymorphone, butorphanol, buprenorphine, levorphanol, meptazinol, pentazocine, dezocine, and their pharmacologically effective esters and salts, said opioid antagonist having the same pentacyclic nucleus as nalmefene and their pharmacologically effective esters and salts.

- 5. The method of claim 1, wherein the pharmacologically effective dose of said opioid antagonist is 25 mg. for naloxone and a molar equivalent weight to 25 mg. of naloxone for opioid antagonists other than naloxone.
- 6. The method of claim 1, wherein the pharmacologically effective dose of said opioid antagonist is 50 mg. for naloxone and a molar equivalent weight to 50 mg. of naloxone for opioid antagonists other than naloxone.
- 7. The method of claim 1, wherein the pharmacologically effective dose of said opioid antagonist, administered orally is 10 mg. at bedtime for the first three days of treatment, 10 mg. in the morning on the fourth day of treatment, and thereafter when no daytime sleepiness if evident, 25 mg.
- 8. The method of claim 1, wherein said opioid antagonist or a pharmaceutical acceptable ester or salt thereof is administered in combination with a pharmaceutically acceptable carrier.
- 9. The method of claim 1, wherein said tricyclic antidepressant and a-typical antidepressant is selected from the group consisting of imipramine, amitriptyline, trimipramine, doxepin, desipramine, nortriptyline,

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protriptyline, amoxapine, clomipramine, maprotiline, and carbamazepine and a pharmacologically effective salt or ester thereof.

- 10. The method of claim 1, wherein said a-typical antidepressant is selected from the group consisting of bupropion, sertaline, fluoxetine, and trazodone and a pharmaceutically effective salt or ester thereof.
- 11. The method of claim 1, wherein said opioid antagonist is a partial antagonist having partial agonistic activity.
- 12. The method of claim 1, wherein a pharmacologically effective dose of a benzodiazepine with anti-anxiety activity is administered with an opioid antagonist and at least one compound selected from the group consisting of a tricyclic antidepressant, an a-typical antidepressant, and lithium.
- 13. A composition for treating mental or emotional illness and emotional or mental illness concomitant with an illness causing seizures, comprising a pharmacologically effective dose of at least one drug selected from the group consisting of a tricyclic antidepressant, an a-typical antidepressant, and lithium.
- 14. The composition of claim 13 wherein, said mental or emotional illness and emotional or mental illness concomitant with seizures is selected from the group consisting of depression, obsessiveness, depression with obsessiveness, depression with anxiety, mania, manic depressive bipolar conditions, depression with manic

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episodes and depression concomitant with an illness causing seizures which are inhibited by carbamazepine, or a combination of said illnesses.

- 15. The composition of claim 13, wherein the opioid antagonist is selected from the group consisting of cyclazocine, naloxone, naltrexone, nalmefene, nalorphine, nalbuphine, thebaine, levallorphan, oxymorphone, butorphanol, buprenorphine, levorphanol, meptazinol, pentazocine, dezocine, and their pharmacologically effective esters and salts.
- 16. The composition of claim 13, wherein the tricyclic antidepressant is selected from the group consisting of imipramine, amitriptyline, trimipramine, doxepin, desipramine, nortriptyline, protriptyline, amoxapine, clomipramine, maprotiline, and carbamazepine and a pharmacologically effective salt or ester thereof.
- 17. The composition of claim 13, wherein the a-typical antidepressant is selected from the group consisting of bupropion, sertaline, fluoxetine, and trazodone and a pharmaceutically effective salt or ester thereof.
- 18. The composition of claim 13, wherein the opioid antagonist is a partial antagonist having partial agonist activity.
- 19. The composition of claim 13, wherein the opioid antagonist is combined with a pharmaceutically acceptable carrier.

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20. The composition of claim 13, wherein the pharmacologically effective dose of opioid antagonist is combined with a pharmacologically effective dose of a benzodiazepine with anti-anxiety activity and at least one drug selected from the group consisting of a tricyclic antidepressant, an a-typical antidepressant, and lithium.

INTERNATIONAL SEARCH REPORT

Inte ional application No.
PCT/US94/02517

A. CLASSIFICATION OF SUBJECT MATTER IPC(5) :A61K 31/40 US CL :514/410 According to International Patent Classification (IPC) or to both national classification and IPC							
	DS SEARCHED						
	ocumentation searched (classification system followed	by classification symbols)					
U.S. : 514/410							
Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched							
	ata base consulted during the international search (name						
APS, CA naloxone	S, MEDLINE, BIOSIS search terms: sertaline, zo	loft, fluoxetine, prozac, imipramine	, naitrexone, trexan,				
C. DOC	UMENTS CONSIDERED TO BE RELEVANT						
Category*	Citation of document, with indication, where app	propriate, of the relevant passages	Relevant to claim No.				
Y	Chemical Abstracts, Volume 113, i al, "Effects on opioid-induced rate r bupropion," abstract no. 224494 Behav. 37(2) 247-253	1-20					
Υ	Chemical Abstracts, Volume 115, "Effects of tazodone and m-chloro on acute dependence in mice," se Brain Res. Bull. 26(5):799-802	1-20					
Υ	Psychiatr. Clin. North Am., Vol. 1 Jenike, "Pharmacological treatment disorders" see Dialog Computer I Abst. No. 93032183, see AB and	1-20					
	ner documents are listed in the continuation of Box C.						
Special categories of cited documents: "T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention							
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O do	ocument referring to an oral disclosure, use, exhibition or other cans	considered to involve an inventive combined with one or more other suc being obvious to a person skilled in t	th documents, such combination				
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